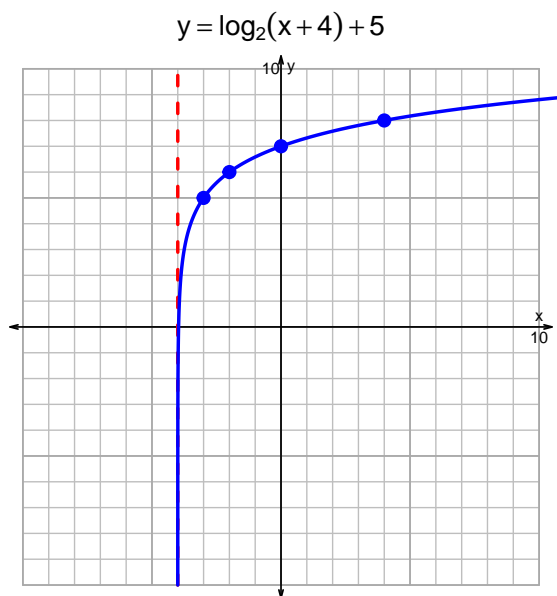


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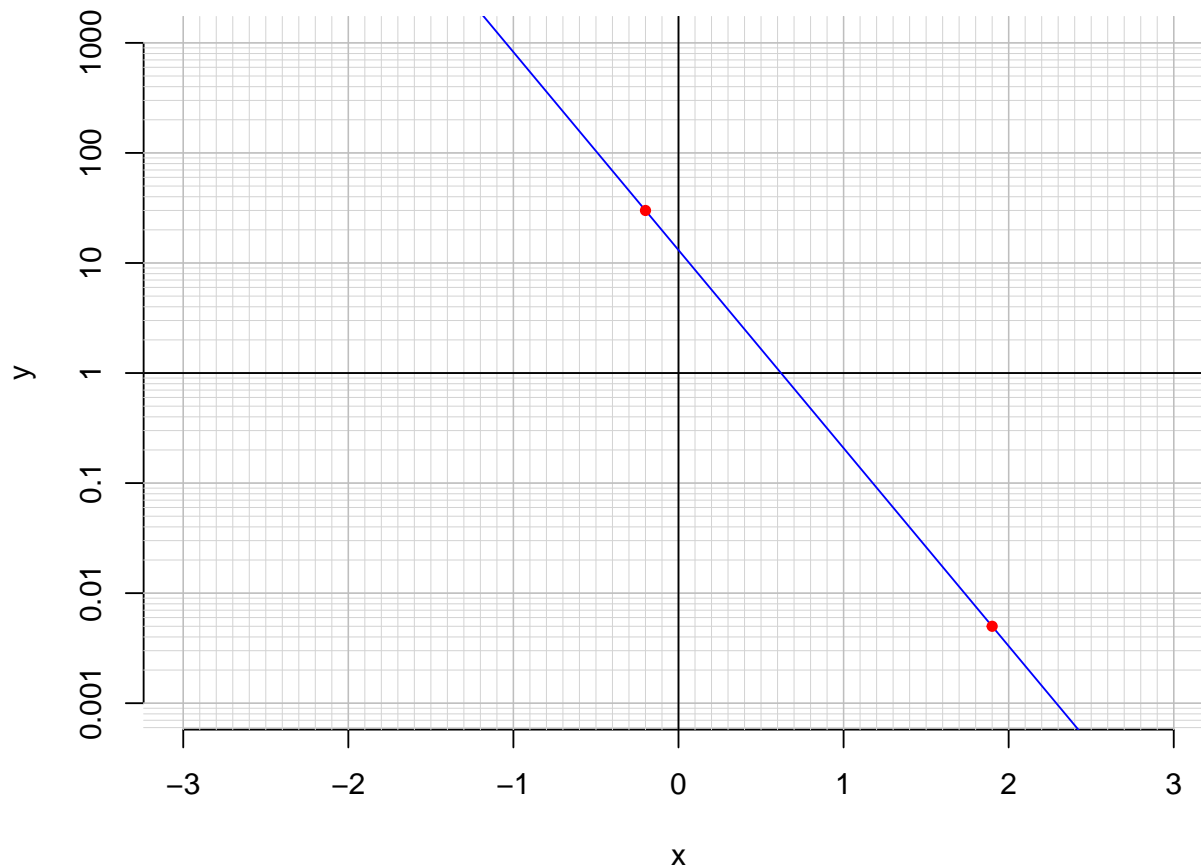
Date: _____

s18QUIZ: EXP LOG (SLTN v242)

- Graph $y = \log_2(x + 4) + 5$ and $y = 2^{x+6} + 3$ on the grids below. Also, draw any asymptotes with dotted lines.



3. An exponential function $f(x) = 13.1 \cdot e^{-4.14x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(1.9)$.

$$f(1.9) = 0.005$$

- b. Express $f^{-1}(x)$, the inverse of f .

$$f^{-1}(x) = \frac{-1}{4.14} \cdot \ln\left(\frac{x}{13.1}\right)$$

- c. Using the plot above, evaluate $f^{-1}(30)$.

$$f^{-1}(30) = -0.2$$